

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference F3232-9006	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US99/12807	International filing date (day/month/year) 17 JUNE 1999	(Earliest) Priority Date (day/month/year) 18 JUNE 1998
Applicant BIO CYBERNETICS INTERNATIONAL		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (See Box I).
2. ☐ Unity of invention is lacking (See Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
  - ☐ filed with the international application.
  - ☐ furnished by the applicant separately from the international application,
    - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
  - ☐ transcribed by this Authority.
4. With regard to the title,
  - ☒ the text is approved as submitted by the applicant.
  - ☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,
  - ☐ the text is approved as submitted by the applicant.
  - ☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:  
Figure No. 1
  - ☐ as suggested by the applicant.
  - ☒ because the applicant failed to suggest a figure.
  - ☐ because this figure better characterizes the invention.

☐ None of the figures.

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The abstract is too long (PCT Rule 8.1(b)). The abstract must be less than 150 words, or 200 words when no Figure is to be published.

## ABSTRACT

An orthotic device (10) is provided, including an orthosis body (12) adapted to be wrapped around the torso of a wearer of the device, the orthosis body (12) having at least two segments (12a, 12b) in juxtaposed relationship. Means (16b, 16c) are provided at free end (14a, 14b) portions of at least two segments (12a, 12b) to releasably secure the free end portions to one another. At least two cables (28) are provided, each cable (28) operatively connected to at least two segments (12a, 12b). At least two sets of pulleys (22a, 22b, 24a, 24b) are mounted on the at least two segments (12a, 12b) with each cable (28) operatively connected to at least two segments (12a, 12b) running through a pulley (22a, 22b, 24a, 24b) on each of the at least two segments (12a, 12b) in alteration, shortening of each cable (28) by pulling at least two segments (12a, 12b) together and tightening the orthotic device (10).

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/12807

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :A61F 5/00, 02

US CL :602/19

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 602/5, 17-19, 23, 26, 32

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,634,891 A (BECZAK, SR. et al.) 03 June 1997, Figs. 1, 5 and 7; and col. 4, lines 50 and 64-66.	1, 2, 4, 5, 8, 10-16, 19, 21 ----- 17, 18, 22-35
Y, P	US Re 35,940 E (HEINZ et al.) 27 October 1998, Fig. 12.	1-6, 9-11, 14-16, 20, 22-29, 34
X --- Y	US 4,508,110 A (MODGLIN) 02 April 1985, Figs. 1-4.	1-9, 11-18, 21 ----- 19, 20, 22-35

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*E* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*G* document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means	
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

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Date of mailing of the international search report

01 NOV 1999

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